File 344:Chinese Patents Abs Aug 1985-2003/Jan
(c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2002/Nov(Updated 030306)
(c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200322
(c) 2003 Thomson Derwent

Set	Items	Description
S1	2525	(SPEAKER? OR AMPLIF? OR LOUDSPEAKER? OR LOUD()SPEAKER? OR MICROPHON? OR COMMUNICATOR? OR INTERCOM?)(3N)BOX? OR SPEAKERBOX? OR SPEAKER()PHONE? OR SPEAKERPHONE?
S2	1903317	PORTABLE OR HANDHELD OR HAND()HELD OR MOVABL? OR MOBIL? OR TRANSPORT? OR TRAVELING OR POCKET?
S3	1954	STAND()ALONE?
S4	1692967	TELEPHON? OR TELECOM? OR COMMUNICAT? OR ANALOG? OR FONE? ? OR PHONE? ?
S5	4812039	DETACH? OR DISCONNECT? OR UNCOUPL? OR DISENGAG? OR DISUNIT? OR SEPERAT? OR SPLIT()UP OR REMOVABL? OR CONNECT? OR LINK? OR JOIN? OR HOOK?()UP OR PLUGIN OR PLUG?()IN OR ADJOIN? OR COUPL? OR ADAPTER?
S6	416	S1 AND S4 AND S5
S7	93	S6 AND S2
S8	2	S6 AND S3
S9	183	S1(3N)S5
S10	75	S9 AND S4
S11	48	S9(5N)S4
S12	7	S11 AND S2
S13	7	S12 NOT S8
S14	48	S9(3N)S4
S15	41	S14 NOT (S13 OR S8)
S16	1	S1(3N)S3
S17	0	S16 NOT (S15 OR S13 OR S8)
S18	52	S1(3N)S2
S19	38	S18 AND S4
S20	35	S18(5N)S4
S21	33	S20 NOT (S16 OR S15 OR S13 OR S8)
S22	3	S1 AND S3 AND S4
S23	1	S22 NOT (S21 OR S16 OR S15 OR S13 OR S8)
S24	0	S15 AND S2
S25	0	S15 AND S3
S26	5	S15 AND IC=(H04M-011/00 OR H04N-007/14)
S27	2	S21 AND IC=(H04M-011/00 OR H04N-007/14)
S28	17	S21 NOT (S6 OR S27)

8/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013386684 **Image available**
WPI Acc No: 2000-558622/200051
XRPX Acc No: N00-413383
Speakerphone **with video conferencing function uses first protocol for digital transmission for** communication **between sub-system and baseline unit and second protocol for** communication **of sub-system via network**
Patent Assignee: KONINK PHILIPS ELECTRONICS NV (PHIG)
Inventor: ASH D A; PELLICCI N; YANG W
Number of Countries: 023 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200054502	A1	20000914	WO 2000EP1344	A	20000218	200051	B
AU 200034238	A	20000928	AU 200034238	A	20000218	200067	
BR 200005250	A	20010130	BR 20005250	A	20000218	200110	
			WO 2000EP1344	A	20000218		
EP 1078523	A1	20010228	EP 2000912482	A	20000218	200113	
			WO 2000EP1344	A	20000218		
CN 1296696	A	20010523	CN 2000800287	A	20000218	200154	
JP 2002539684	W	20021119	JP 2000604608	A	20000218	200281	
			WO 2000EP1344	A	20000218		

Priority Applications (No Type Date): US 99264058 A 19990308
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200054502	A1	E	26	H04N-007/14	
Designated States (National): AU BR CN JP					
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
AU 200034238	A			H04N-007/14	Based on patent WO 200054502
BR 200005250	A			H04N-007/14	Based on patent WO 200054502
EP 1078523	A1	E		H04N-007/14	Based on patent WO 200054502
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
CN 1296696	A			H04N-007/14	
JP 2002539684	W		35	H04M-011/00	Based on patent WO 200054502

Abstract (Basic): WO 200054502 A1
NOVELTY - A baseline unit (102) is **connected** to a user-interface (108) to allow audio **communication** via a **communication** network (106). A sub-system (104) interfaces the baseline unit to the **communication** network. The sub-system and the baseline unit **communicates** using a first protocol for digital transmission. The sub-system **communicates** via the **communication** network using a second protocol.
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for **telephone** conferencing via network.
USE - **Speakerphone** with video conferencing function.
ADVANTAGE - Provides more user-friendly **communication** system with emphasis on modularity and flexibility. Optimizes hardware and software of baseline unit for data acquisition, audio signal processing, and control commands for video conferencing since baseline unit is made independent of network through interface unit. Allows baseline unit to be used as **stand - alone speakerphone** or audio accessory to video conferencing system.
DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a **speakerphone** system with baseline unit.
Baseline unit (102)
Sub-system (104)
Communication network (106)
User-interface (108)
pp; 26 DwgNo 1/8
Title Terms: VIDEO; FUNCTION; FIRST; PROTOCOL; DIGITAL; TRANSMISSION;

COMMUNICATE ; SUB; SYSTEM; BASELINE; UNIT; SECOND; PROTOCOL; **COMMUNICATE** ; SUB; SYSTEM; NETWORK
Derwent Class: W01; W02
International Patent Class (Main): H04M-011/00; H04N-007/14
International Patent Class (Additional): H04M-001/00; H04M-001/725; H04N-007/15
File Segment: EPI

8/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

011001289 **Image available**
WPI Acc No: 1996-498238/199650
XRPX Acc No: N96-420235
Telephone **and personal computer interfacing arrangement - attaches** telephone **to** analog **line in PC and senses when computer is in powered-ON state before transferring information between** telephone **and computer**
Patent Assignee: AT & T IPM CORP (AMTT); LUCENT TECHNOLOGIES INC (LUCE)
Inventor: BENTLEY J L; BLONDER G E; HUTCHISON P W; OW-WING K M; RAVEN M S; SCHLESSINGER J E; SPECHT D W; SUMNER E E; WEAVER R J
Number of Countries: 003 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
CA 2165710	A	19960704	CA 2165710	A	19951220	199650	B
US 5727047	A	19980310	US 95368678	A	19950103	199817	
CA 2165710	C	19990706	CA 2165710	A	19951220	199946	
MX 193401	B	19990920	MX 9654	A	19960103	200067	

Priority Applications (No Type Date): US 95368678 A 19950103
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2165710	A		53	H04M-011/00	
US 5727047	A		23	H04M-011/00	
CA 2165710	C	E		H04M-011/00	
MX 193401	B			H04M-011/000	

Abstract (Basic): CA 2165710 A

The arrangement includes a ringer detect circuit and a caller-ID decoder and sniff circuit. This circuit not only provides information as to the identity of an incoming call but also information on the on or off hook status of other **telephone** sets **connected** to the tip-ring lines. The caller-ID circuit also demodulates incoming data signals up to and including 1200b/s. The sniff circuit detects the busy status of a called **telephone** number. The **telephone** ringer detect circuit passes its information to the **speakerphone** which in turn informs the microcontroller.

The microcontroller generates a distinctive ringing signal back to the **speakerphone** in view of input received from the caller-ID circuit which then actuates the speaker. A codec performs ADC and DAC for answering machine and facsimile transmission and reception. Under the control of the DSP, the audio RAM stores messages of facsimile, voice and e-mail. The RAM also contains the program code and default greeting that are employed in the system.

ADVANTAGE - Allows computer to run other software applications while providing computer- **telephony** functionality. **Telephone** operates as **stand - alone** device when computer is powered-OFF or in tandem with computer when it is powered-ON. Transfers information from **telephone** device to computer when information stored in **telephone** device exceeds predetermined level.Enhances **telephone** -computer capability while permitting periodic conservation of power in computer, without reducing **telephone** functionality.

Dwg.3/9

Title Terms: **TELEPHONE** ; PERSON; COMPUTER; INTERFACE; ARRANGE; ATTACH; **TELEPHONE** ; **ANALOGUE** ; LINE; SENSE; COMPUTER; POWER; STATE; TRANSFER; INFORMATION; **TELEPHONE** ; COMPUTER
Derwent Class: T01; W01
International Patent Class (Main): H04M-011/00; H04M-011/000
International Patent Class (Additional): H04M-001/064; H04M-001/64
File Segment: EPI

13/5/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

01720496 **Image available**
STEREO ACOUSTIC REPRODUCING DEVICE

PUB. NO.: 60-198996 [JP 60198996 A]
PUBLISHED: October 08, 1985 (19851008)
INVENTOR(s): NANBU TAKAFUMI
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 59-054946 [JP 8454946]
FILED: March 22, 1984 (19840322)
INTL CLASS: [4] H04R-005/02; H04S-001/00
JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment); 44.2 (COMMUNICATION -- Transmission Systems)
JOURNAL: Section: E, Section No. 382, Vol. 10, No. 42, Pg. 160, February 19, 1986 (19860219)

ABSTRACT

PURPOSE: To obtain an excellent low sound characteristic of a speaker by reducing right/left **speaker boxes** and fixing attachingly **detachably** the right/left **speaker boxes** so as to **communicate** through a communicating part provided to an acoustic device main body.

CONSTITUTION: The right/left speaker boxes 1, 1 are mounted to the acoustic device main body 2 in case of **transportation** and when a few listeners exist, and when many listeners exist, the boxes 1, 1 are removed from the main body 2 so as to provide high presence by parting the boxes 1, 1 together. The back side of the main body 2 is provided with a communicating part 10 communicating the boxes 1, 1 when the boxes 1, 1 are fitted to the main body 2. The communicating part 10 is communicated to through-holes 15, 15 provided to side plates 13, 14 of the main body 2 and through-holes 17, 17 and 33, 33 are formed to the boxes 1, 1 in response to the position of the through-holes 15, 15. In removing the boxes 1, 1 from the main body 2 and drawing an auxiliary box 25 from a main box 24, the through-holes 17, 33 are shut off and the boxes 1, 1 are brought into the closing state. Thus, excellent low sound characteristic is provided to the speakers.

13/5/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014449846 **Image available**
WPI Acc No: 2002-270549/200232
XRPX Acc No: N02-210545
Speaker-phone e.g. for use in vehicle, comprises attachable and removable loudspeaker coupled to speaker phone by inserting anchor strip into slot cavity
Patent Assignee: E LEAD ELECTRONIC CO LTD (ELEA-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 20113013	U1	20011220	DE 2001U2013013	U	20010804	200232	B

Priority Applications (No Type Date): DE 2001U2013013 U 20010804
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 20113013	U1		14	H04M-001/62	

Abstract (Basic): DE 20113013 U1
NOVELTY - The speaker-phone body (31) contains a speaker-phone circuit for use with a **mobile** telephone with an anchor strip (34) and

a socket (313) at top or side edge. A loudspeaker set (32) with a loudspeaker generates the speaker-phone audio signals. In a bottom edge of the loudspeaker set is formed a slot cavity (321), while a plug (322) is coupled to the loudspeaker and is insertable into the socket. The loudspeaker set is **coupled** to the **speaker - phone** by inserting the anchor strip into the slot cavity.

USE - For facilitating the most favorable loudspeaker positioning for improved communication quality in a car.

ADVANTAGE - Easy adaptation to driver's requirements.

DESCRIPTION OF DRAWING(S) - The figure shows an exploded view of rear side.

body, (31)
anchor strip, (34)
socket, (313)
loudspeaker set, (32)
slot cavity, (321)
plug (322)
pp; 14 DwgNo 3/5

Title Terms: SPEAKER; TELEPHONE; VEHICLE; COMPRISE; ATTACH; REMOVE; LOUDSPEAKER; COUPLE; SPEAKER; TELEPHONE; INSERT; ANCHOR; STRIP; SLOT; CAVITY
Derwent Class: Q17; V06; W01; X22
International Patent Class (Main): H04M-001/62
International Patent Class (Additional): B60R-011/02; H04R-001/02; H05K-011/02
File Segment: EPI; EngPI

13/5/3 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014082377
WPI Acc No: 2001-566591/200164
XRPX Acc No: N01-421905
Car installation for automatic switch-on of mounted speaker - phone **and for wireless** connection **to** mobile telephone
Patent Assignee: KUNCIC F A (KUNC-I)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 20109456	U1	20010823	DE 2001U2009456	U	20010529	200164	B

Priority Applications (No Type Date): DE 2001U2009456 U 20010529
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 20109456	U1		4	H04M-001/60	

Abstract (Basic): DE 20109456 U1

NOVELTY - The installation consists of short range radios in **mobile** telephone and car respectively, an electronic computer and data processing program, inputs and outputs, e.g. loudspeakers, microphones, ear pieces, keyboards and screen. These components are either integrated in a traffic guide system, or installed in the car. An aerial is fitted for outwards connections, and an aerial system for the inside of car body. The aerial system is so installed that only transmission from body inside and the boot are received. An EDV program checks automatically the data stored in computer against preset data of known users, then the respective inputs and outputs are allocated in preset manner. Non-stored data are interrogated and manually fed-in. The **mobile** telephone(s) are radio connected.

USE - For automatic control of car mounted **speaker - phone** and **mobile telephone coupling** .

ADVANTAGE - Improved safety during use of speaker-phone in a car.

pp; 4 DwgNo 0/0

Title Terms: CAR; INSTALLATION; AUTOMATIC; SWITCH; MOUNT; SPEAKER; TELEPHONE; WIRELESS; CONNECT; **MOBILE** ; TELEPHONE
Derwent Class: V06; W01; W02; X22
International Patent Class (Main): H04M-001/60
International Patent Class (Additional): H04M-001/725; H05K-011/02
File Segment: EPI

13/5/4 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013051655 **Image available**
WPI Acc No: 2000-223509/200019
XRPX Acc No: N00-167516
Speaker phone **module** connectable **to either cellular** telephone **or battery charger**
Patent Assignee: ERICSSON INC (TELF)
Inventor: BANYAS T; COLLINS C T; LILJA P; SNYDER T
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6035221	A	20000307	US 97783578	A	19970115	200019	B

Priority Applications (No Type Date): US 97783578 A 19970115
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6035221	A		8	H04Q-007/20	

Abstract (Basic): US 6035221 A
NOVELTY - A housing defines a cradle (25) for removably receiving a **portable** battery charger (30). A microphone (45) receives an audio signal from a speaker phone circuitry within the housing to be transmitted to a cellular phone placed within the charger. A speaker (50) broadcasts audio signals received from the **phone** . A **connector** electrically **connects** the **speaker phone** module (10) to the battery charger.
USE - **Speaker phone** module **connectable** to either cellular **telephone** or battery charger.
ADVANTAGE - Provides modular add-on accessory enabling user to add speaker phone capabilities to existing battery charger unit or to utilize speaker phone without battery charger.
DESCRIPTION OF DRAWING(S) - The figure is the perspective view of the speaker phone module capable of receiving within its cradle either a battery charger unit or a cellular telephone.
Cradle (25)
Battery charger (30)
Microphone (45)
Speaker (50)
pp; 8 DwgNo 4/4
Title Terms: SPEAKER; TELEPHONE; MODULE; CONNECT; CELLULAR; TELEPHONE; BATTERY; CHARGE
Derwent Class: W01
International Patent Class (Main): H04Q-007/20
File Segment: EPI

13/5/5 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

011511220 **Image available**
WPI Acc No: 1997-489134/199745
XRPX Acc No: N97-407531
Programmable emergency communication system - receives signal from

portable **radio transmitter and automatically dials one of stored telephone numbers and reports signals to central station which determines subscriber ID, and device which initiated all, such as smoke detector**
Patent Assignee: AC CORP (ACAC-N)
Inventor: CONNOR L W; LUBIN D; MCKEITHAN T; SEUBERLING T
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5673304	A	19970930	US 91763493	A	19910923	199745	B
			US 9394446	A	19930721		

Priority Applications (No Type Date): US 9394446 A 19930721; US 91763493 A 19910923
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5673304	A		32	H04M-011/04	CIP of application US 91763493

Abstract (Basic): US 5673304 A

The system includes an automatic dialler which is programmed to dial at least one telephone number upon command. A first control signal is transmitted in response to an external condition. A **speakerphone** is **coupled** to a **telephone** line for enabling hands free reception and transmission of voice-to-voice communication when interconnected with the telephone line. A reprogrammable central controller is connected to the speakerphone and to the autodialler for controlling the operations of the home system in accordance with a selected set of reprogrammable options.

The central controller, upon receipt of the first control signal connects the autodialler to a telephone line and generates a command which causes dialling of a telephone number. Upon receipt of an interrogation from a central station, the central controller transmits information indicating the selected set of options, to the central station.

USE/ADVANTAGE - E.g. for emergency communication system. Can be operated by pressing button on miniature radio transmitter carried by person. Responds to environmental conditions and also reports non-emergency conditions.

Dwg.1/4

Title Terms: PROGRAM; EMERGENCY; COMMUNICATE; SYSTEM; RECEIVE; SIGNAL; **PORTABLE** ; RADIO; TRANSMIT; AUTOMATIC; DIAL; ONE; STORAGE; TELEPHONE; NUMBER; REPORT; SIGNAL; CENTRAL; STATION; DETERMINE; SUBSCRIBER; ID; DEVICE; INITIATE; SMOKE; DETECT
Derwent Class: W01
International Patent Class (Main): H04M-011/04
File Segment: EPI

13/5/6 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009467954 **Image available**
WPI Acc No: 1993-161493/199320
XRPX Acc No: N94-034137

Mobile **telephone rack enabling car driver to send message without holding telephone - has loudspeaker circuits including microphones to pick-up sound waves generated by user and from receiver, and loudspeaker transmitting sound waves from mouthpiece to user**
Patent Assignee: YANG C (YANG-I)
Inventor: YANG C
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2261571	A	19930519	GB 9124118	A	19911112	199320	B
US 5282246	A	19940125	US 91789264	A	19911108	199405	N

Priority Applications (No Type Date): GB 9124118 A 19911112
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2261571	A		11	H04M-001/11	
US 5282246	A		5	H04M-001/00	

Abstract (Basic): GB 2261571 A

The **mobile** telephone rack (1) includes first and second loudspeaker circuits. The first loudspeaker circuit includes a first microphone (51) to pick up sound waves generated by the user and a first loudspeaker (52) to transmit the sound waves to the mouthpiece of a **mobile** telephone mounted in the rack (1).

The second loudspeaker circuit includes a second microphone (51) to pick up sound waves from the receiver of the **mobile** telephone and a second loudspeaker (52) to transmit sound waves to the user. The **mobile** telephone rack (1) enables a user to send messages using a **mobile** telephone inserted into the rack (1) without using his or her hands.

ADVANTAGE - Suitable for use with wide variety of **telephones** , forms **mobile** **speaker - phone** without use of **connecting** wires.

Dwg.1/5

Title Terms: **MOBILE** ; TELEPHONE; RACK; ENABLE; CAR; DRIVE; SEND; MESSAGE; HOLD; TELEPHONE; LOUDSPEAKER; CIRCUIT; MICROPHONE; PICK; UP; SOUND; WAVE; GENERATE; USER; RECEIVE; LOUDSPEAKER; TRANSMIT; SOUND; WAVE; MOUTHPIECE; USER
Derwent Class: W01; X22
International Patent Class (Main): H04M-001/11
International Patent Class (Additional): H04M-009/00
File Segment: EPI

13/5/7 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

008481380 **Image available**
WPI Acc No: 1990-368380/199049
XRPX Acc No: N90-280931

Portable **hybrid communication system - integrates personal computer, cellular transmitter, modem, and speaker-phone into case with facility for external connections**

Patent Assignee: SPECTRUM INFORM TEC (SPEC-N)
Inventor: OSULLIVAN H M
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4972457	A	19901120	US 89301521	A	19890119	199049	B

Priority Applications (No Type Date): US 89301521 A 19890119

Abstract (Basic): US 4972457 A

The system includes a personal computer, a cellular transceiver, a speaker phone, and a hybrid communications control unit. The system has connectors for attaching a headset, cellular control unit, land telephone line, and additional speakers and microphones. the microprocessor-controlled hybrid communications control unit includes a modem, a data access arrangement, and a tone generator as well as digital, analog, and power switches. The hybrid communications control unit switches the communications components and provides, under program control, the proper protocols, level, and impedance matching to **connect** the modem, **speaker** **phone** headset, speaker/microphone, or cellullar control unit to the landline or to the cellular network via the transceiver.

Matching and switching operations are automatic and transparent to the user. The unit can also connect two of the terminal devices or connect the cellular and landlines for call relaying. The device is

capable of connecting several calls at the same time. The hybrid communications control unit may be controlled by its internal firmware, by toggle switches, or by commands issued from the person computer.

ADVANTAGE - Can either provide)voice and data channels at same time, or provide two voice channels at same time, one channel being over public telephone network and one channel being over cellular network.

Dwg.4/10

Title Terms: **PORTABLE** ; HYBRID; COMMUNICATE; SYSTEM; INTEGRATE; PERSON; COMPUTER; CELLULAR; TRANSMIT; MODEM; SPEAKER; TELEPHONE; CASE; FACILITY; EXTERNAL; CONNECT

Derwent Class: T01; W01

International Patent Class (Additional): H04M-011/00

File Segment: EPI

26/5/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

05881155 **Image available**
TELEPHONE TERMINAL EQUIPMENT

PUB. NO.: 10-164255 [JP 10164255 A]
PUBLISHED: June 19, 1998 (19980619)
INVENTOR(s): HIRAI YUJI
APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 08-315962 [JP 96315962]
FILED: November 27, 1996 (19961127)
INTL CLASS: [6] **H04M-011/00** ; H04L-012/50
JAPIO CLASS: 44.4 (COMMUNICATION -- Telephone); 44.3 (COMMUNICATION -- Telegraphy); 45.4 (INFORMATION PROCESSING -- Computer Applications)
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessers); R138 (APPLIED ELECTRONICS -- Vertical Magnetic & Photomagnetic Recording)

ABSTRACT

PROBLEM TO BE SOLVED: To provide a telephone terminal equipment by which not only data communication but also voice speech is made available.

SOLUTION: In the case that an information entry means 14 selects a personal telephone number and an electronic mail mode, a dial signal generating means 6 dials a telephone number for data communication stored in a RAM 15 and a switch 21 is thrown to the position of a MODEM 5 connecting to a telephone communication network, and in the case of selecting a personal telephone number and a voice speech mode by the information entry means 14, the dial signal generating means 6 dials the personal telephone number stored in the storage means and the switch 21 is thrown to the position at which a handset 7 or a **speakerphone** circuit 8 is **connected** to the **telephone** line.

26/5/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014778368 **Image available**
WPI Acc No: 2002-599074/200264
XRPX Acc No: N02-475198
Remote control system for consumer electronic device, has transmitter which is connected **to** speaker phone **for transmitting call identification data to remote controller**
Patent Assignee: STEFANIK J R (STEF-I)
Inventor: STEFANIK J R
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20020085128	A1	20020704	US 2000751288	A	20001229	200264	B

Priority Applications (No Type Date): US 2000751288 A 20001229
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020085128	A1		11	H04M-011/00	

Abstract (Basic): US 20020085128 A1
NOVELTY - A consumer electronic device has a transmitter **connected** to a **speaker phone** for transmitting call identification data to a receiver of a remote controller (10). The electronic device also has a receiver for receiving signals from the remote controller.

USE - Remote control system for controlling consumer electronic device such as set-top box used by satellite, HDTV or cable television controller, VCR, DVD, home theater system components, stereo system components, digital video recorder (DVR), etc.

ADVANTAGE - Allows to receive information and notification of events such as incoming telephone calls and starting times of television programs, by connecting the electronic device to speaker phone.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the remote controller.

Remote controller (10)

pp; 11 DwgNo 1/5

Title Terms: REMOTE; CONTROL; SYSTEM; CONSUME; ELECTRONIC; DEVICE; TRANSMIT ; CONNECT; SPEAKER; TELEPHONE; TRANSMIT; CALL; IDENTIFY; DATA; REMOTE; CONTROL

Derwent Class: W02; W03; W04

International Patent Class (Main): **H04M-011/00**

International Patent Class (Additional): H04N-005/44; H04N-007/16; H04N-007/173

File Segment: EPI

26/5/3 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

013239477 **Image available**

WPI Acc No: 2000-411351/200035

XRPX Acc No: N00-307541

Mouse for use as telephone set, has on-hook and dialing buttons mounted at lower portion of mouse buttons, microphone and speaker mounted at lower and upper portions of mouse body, respectively

Patent Assignee: CHO S J (CHOS-I)

Inventor: CHO S J

Number of Countries: 020 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200024185	A1	20000427	WO 98KR327	A	19981020	200035	B

Priority Applications (No Type Date): WO 98KR327 A 19981020

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200024185	A1	E	12	H04M-011/00	

Designated States (National): JP US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Abstract (Basic): WO 200024185 A1

NOVELTY - On-hook and dialing buttons (24,28) are mounted at lower portion of mouse buttons (10,12). Microphone (30) and speaker (32) are mounted at lower and upper portions of mouse body (22) equipped in telephone set circuit. An earphone jack (42) and a **speaker phone** button (26) **connected** with circuit board, are mounted at one side of mouse body and at lower portion of mouse buttons, respectively.

USE - The mouse for use as PC input device function and as telephone set, is applied to general business using PC and telephone set field of communication sales using PC or telephone communication network, telephone number information service, in the field of command communication of police or army.

ADVANTAGE - Enables to use as telephone set and thus providing smooth PC communication without having a separate telephone set. The mouse enables displaying its essential function without trouble and at the same time, it serves as the telephone set if necessary.

DESCRIPTION OF DRAWING(S) - The figure shows perspective view of mouse for PC.

Mouse buttons (10,12)

Mouse body (22)
On-hook button (24)
Speaker phone button (26)
Dialing button (28)
Microphone (30)
Speaker (32)
Earphone jack (42)
pp; 12 DwgNo 1/2
Title Terms: MOUSE; TELEPHONE; SET; HOOK; BUTTON; MOUNT; LOWER; PORTION; MOUSE; BUTTON; MICROPHONE; SPEAKER; MOUNT; LOWER; UPPER; PORTION; MOUSE; BODY; RESPECTIVE
Derwent Class: T01; T04; W01
International Patent Class (Main): **H04M-011/00**
International Patent Class (Additional): G06F-003/033; H04M-001/21
File Segment: EPI

26/5/4 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012924164 **Image available**
WPI Acc No: 2000-096000/200008
Related WPI Acc No: 1998-377082
XRPX Acc No: N00-074087

Call emulator circuit for use in cellular telephone

Patent Assignee: CIRRUS LOGIC INC (CIRR-N)
Inventor: BROWN P M
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5999597	A	19991207	US 93173761	A	19931227	200008	B
			US 95561903	A	19951122		
			US 9832384	A	19980226		

Priority Applications (No Type Date): US 95561903 A 19951122; US 93173761 A 19931227; US 9832384 A 19980226
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5999597	A		27	H04M-011/00	CIP of application US 93173761
					Div ex application US 95561903
					CIP of patent US 5524047
					Div ex patent US 5771278

Abstract (Basic): US 5999597 A

NOVELTY - Modem (110) is connected to a hybrid circuit (126) via transmission lines (136,138) and reception lines (132,134). Amplifiers (170,172) are connected to the reception lines and transmission lines, respectively. A phase shifter is connected to the transmission lines to provide phase shifted signal to cancel echo caused by acoustic interaction between a speaker (139) and a microphone (140).

DETAILED DESCRIPTION - The hybrid circuit is connected to a telephone line (118). The phase shifted signal is supplied to an adder (196) that receives the signal amplified by an amplifier (172). The adder supplies the synthesized signal to the speaker.

USE - For canceling acoustic coupling oscillation in cellular telephone, IR/UV ray device, facsimile, personal digital assistant system.

ADVANTAGE - Reduces system oscillation caused by acoustical coupling. Enables easy formation of echo canceler in single IC that is connected to four wire portion of telephone lines. Reduces howling and echo caused by acoustic **coupling** during operation of **speaker phone** . Enables direct recording of message by including answering machine in modem.

DESCRIPTION OF DRAWING(S) - The figure shows block diagram of

communication system.
Modem (110)
Telephone line (118)
Hybrid circuit (126)
Reception lines (132,134)
Transmission lines (136,138)
Speaker (139)
Microphone (140)
Amplifiers (170,172)
Adder (196)
pp; 27 DwgNo 3/13
Title Terms: CALL; EMULATION; CIRCUIT; CELLULAR; TELEPHONE
Derwent Class: W01
International Patent Class (Main): **H04M-011/00**
File Segment: EPI

26/5/5 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009924150 **Image available**
WPI Acc No: 1994-191861/199423
XRPX Acc No: N94-150958
Entry door answering telephone system - has door speaker phone connected **in parallel with touch tone telephone and paging module is series with speaker phone**
Patent Assignee: STEVENS C J (STEV-I)
Inventor: STEVENS C J
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5321742	A	19940614	US 92910823	A	19920706	199423	B

Priority Applications (No Type Date): US 92910823 A 19920706
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5321742	A		5	H04M-011/00	

Abstract (Basic): US 5321742 A
The entry door answering telephone system for a location equipped with a touch-tone telephone having a keypad and an incoming phone line connected to the **telephone** uses a door **speaker phone** which is switchably **connected** in parallel with the touch-tone telephone. A paging module is switchably connected with the door and touch-tone telephones for completing a circuit between them in response to a data signal transmitted by the touch-tone telephone.
A control box is connected to the paging module, door and touch-tone telephones such that the circuit is broken in response to a data signal transmitted by the touch-tone telephone. The paging module and the control box are connected to a power supply. The control box disconnects the circuit and reconnects the incoming phone line to the touch-tone telephone in response to the touch-tone telephone returning to an ''on-hook'' position and thus returning the touch tone telephone's direct current load to zero (0).
USE/ADVANTAGE - Simple installation. Simple manufacture. Safe and durable in use.
Dwg.1/2
Title Terms: ENTER; DOOR; ANSWER; TELEPHONE; SYSTEM; DOOR; SPEAKER; TELEPHONE; CONNECT; PARALLEL; TOUCH; TONE; TELEPHONE; PAGE; MODULE; SERIES; SPEAKER; TELEPHONE
Derwent Class: W01
International Patent Class (Main): **H04M-011/00**
File Segment: EPI

27/5/1 **(Item 1 from file: 350)**
DIALOG(R)File 350:Derwent WPIX

013797017 **Image available**
WPI Acc No: 2001-281229/200129
XRPX Acc No: N01-200541

Personal data transmission device transmits data bidirectionally and unidirectionally, when transmission device is operatively coupled to respective phones and when data sending party couples device to phone, respectively

Patent Assignee: DEVLAS P (DEVL-I)
Inventor: DEVLAS P
Number of Countries: 092 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200105136	A1	20010118	WO 2000US19292	A	20000714	200129	B
AU 200061010	A	20010130	AU 200061010	A	20000714	200129	
EP 1198946	A1	20020424	EP 2000947392	A	20000714	200235	
			WO 2000US19292	A	20000714		

Priority Applications (No Type Date): US 99143812 P 19990714
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200105136	A1	E	14	H04M-011/00	

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200061010	A		H04M-011/00	Based on patent WO 200105136
EP 1198946	A1	E	H04M-011/00	Based on patent WO 200105136

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200105136 A1

NOVELTY - The data is transmitted bidirectionally over phone lines during voice communication, when parties have the device operatively coupled to respective phones. An unidirectional transmission of data is performed when data sending party operatively couples the device to a phone and data receiving party has **telecommunication** device chosen from PDA, **speaker phone** , **portable phone** , answering machine and facsimile.

DETAILED DESCRIPTION - A data/voice switch (14), data input-output interface (20), read only memory (38), non-volatile memory (22), character generator (24), visual display unit (26) are connected to a controller (4) in the transmission device. Data/voice switch and voice mute circuit are connected to telephone. Receive and transmission data select buttons (28,30) are respectively connected to data inputoutput interface, to which program button is connected.

USE - Personal data transmission device connected to telephone and telephone line. For transmitting personal data like name, address telephone number, facsimile number, social security number, credit card number, other personal or business information etc used in e-commerce transaction over internet.

ADVANTAGE - Enables parties to phone call to send and receive routine personal data overphone lines, while the parties are on the phone. Enable sending efficiently routine factual information to another party without need to give information verbally thereby saves time by reducing possibility of communication or transcription errors.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of personal data transfer device.

Controller (4)

Voice data switch (14)
Input-output interface (20)
Non-volatile memory (22)
Character generator (24)
Display (26)
Buttons (28,30)
pp; 14 DwgNo 1/6
Title Terms: PERSON; DATA; TRANSMISSION; DEVICE; TRANSMIT; DATA; BIDIRECTIONAL; UNIDIRECTIONAL; TRANSMISSION; DEVICE; OPERATE; COUPLE; RESPECTIVE; TELEPHONE; DATA; SEND; PARTY; COUPLE; DEVICE; TELEPHONE; RESPECTIVE
Derwent Class: W01
International Patent Class (Main): **H04M-011/00**
File Segment: EPI

27/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

010555236 **Image available**
WPI Acc No: 1996-052189/199606
XRPX Acc No: N96-043761
Personal telephone extension system - has personal base station connected to phone line which provides routing and switching between phone **line** portable **unit, full duplex** speakerphone **and voice messaging system**
Patent Assignee: MOTOROLA INC (MOTI)
Inventor: SMALLWODD R D; TAYLOR M W; WEIGAND D L; SMALLWOOD R D; WEIGANG D L; SMALLWOOD R; TAYLOR M; WEIGAND D
Number of Countries: 013 Number of Patents: 017
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2291312	A	19960117	GB 9513145	A	19950628	199606	B
DE 19523180	A1	19960111	DE 1023180	A	19950626	199607	
FR 2722048	A1	19960105	FR 957220	A	19950616	199609	
SE 9502366	A	19960102	SE 952366	A	19950630	199612	
JP 8033040	A	19960202	JP 95186684	A	19950630	199615	
CA 2151115	A	19960102	CA 2151115	A	19950606	199617	
BR 9502296	A	19960618	BR 952296	A	19950630	199630	
US 5528666	A	19960618	US 94269594	A	19940701	199630	
SG 30414	A1	19960601	SG 95789	A	19950630	199634	
CN 1115161	A	19960117	CN 95107769	A	19950630	199740	
TW 329071	A	19980401	TW 95107416	A	19950718	199837	
GB 2291312	B	19990106				199904	
CA 2151115	C	19990223	CA 2151115	A	19950606	199919	
DE 19523180	C2	20000608	DE 1023180	A	19950626	200032	
KR 177270	B1	19990515	KR 9519233	A	19950701	200052	
MX 198994	B	20001011	MX 952783	A	19950626	200212	
SE 519130	C2	20030121	SE 952366	A	19950630	200309	

Priority Applications (No Type Date): US 94269594 A 19940701
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2291312	A		13	H04Q-007/32	
DE 19523180	A1		5	H04M-003/42	
FR 2722048	A1			H04M-011/00	
SE 9502366	A			H04Q-007/24	
JP 8033040	A		7	H04Q-007/38	
CA 2151115	A			H04Q-007/24	
BR 9502296	A			H04M-011/00	
US 5528666	A		6	H04Q-007/30	
SG 30414	A1			H04M-000/00	
CN 1115161	A			H04Q-007/20	
TW 329071	A			H04J-003/00	
GB 2291312	B			H04Q-007/32	

CA 2151115	C	H04Q-007/24
DE 19523180	C2	H04M-001/725
KR 177270	B1	H04M-011/00
MX 198994	B	H04M-009/00
SE 519130	C2	H04Q-007/24

Abstract (Basic): GB 2291312 A

The phone expansion system has a base station in communication with a public switched telephone network interface. Several portable units are connected in communication with the base station. The base station connects and routes signals received from the PSTN interface and signals received from each portable unit.

The portable units can send signals to and receive signals from the PSTN interface via the base station. The portable units can send signals to and receive signals from each other via the base station. Pref., the base station includes a voice messaging system and connects and routes signals received from it. The voice messaging system can send signals to and receive signals from the PSTN interface and each of the portable units.

USE/ADVANTAGE - Allows private user to incorporate such features as voice mail into their system. Enables free flowing speech on speakerphone.

Dwg.1/6

Title Terms: PERSON; TELEPHONE; EXTEND; SYSTEM; PERSON; BASE; STATION; CONNECT; TELEPHONE; LINE; ROUTE; SWITCH; TELEPHONE; LINE; PORTABLE; UNIT; FULL; DUPLEX; VOICE; MESSAGING; SYSTEM

Derwent Class: W01

International Patent Class (Main): H04J-003/00; H04M-000/00; H04M-001/725; H04M-003/42; H04M-009/00; **H04M-011/00** ; H04Q-007/20; H04Q-007/24; H04Q-007/30; H04Q-007/32; H04Q-007/38

International Patent Class (Additional): H04M-001/72; H04Q-007/26

File Segment: EPI

28/5/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

06962228 **Image available**
PORTABLE TELEPHONE SYSTEM AND ITS OPERATING METHOD

PUB. NO.: 2001-189794 [JP 2001189794 A]
PUBLISHED: July 10, 2001 (20010710)
INVENTOR(s): JEAN-PHILIPPE KAIERUTSUENIA
APPLICANT(s): DENSO CORP
APPL. NO.: 2000-339059 [JP 2000339059]
FILED: November 07, 2000 (20001107)
PRIORITY: 99 437330 [US 99437330], US (United States of America), November 09, 1999 (19991109)
INTL CLASS: H04M-001/60; H04B-001/38; H04B-007/26; H04M-001/247; H04M-001/725

ABSTRACT

PROBLEM TO BE SOLVED: To prevent excessive volume in a speakerphone mode from being heard by a user in a portable telephone which is operated in the speakerphone mode.

SOLUTION: When the user performs the request operation of the speakerphone mode to a user interface 102 and it is detected that the portable telephone 100 is in a horizontal state in this case by an inclination sensor 108, the mode is made to be the **speakerphone** mode. Since the **portable telephone** 100 cannot be put on the ear of the user when it is in the horizontal state, excessive volume is not heard by the user even in the speakerphone mode.

28/5/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO

06473921 **Image available**
METHOD AND SYSTEM FOR **SPEAKER PHONE** OPERATION IN **PORTABLE COMMUNICATION** DEVICE

PUB. NO.: 2000-059496 [JP 2000059496 A]
PUBLISHED: February 25, 2000 (20000225)
INVENTOR(s): NICHOLLS RICHARD BRENT
WONG CHIN PAN
KARANJA MARTIN THUO
DORAN PATRICK JOSEPH
APPLICANT(s): MOTOROLA INC
APPL. NO.: 11-215155 [JP 99215155]
FILED: July 29, 1999 (19990729)
PRIORITY: 127348 [US 98127348], US (United States of America), July 31, 1998 (19980731)
INTL CLASS: H04M-001/60; H04B-003/20; H04B-007/15; H04Q-007/38; H04M-001/253

ABSTRACT

PROBLEM TO BE SOLVED: To provide a means that surely decides the time, when a speaker is started to silence a microphone in the portable **communication** device which operates in the **speaker phone** mode.

SOLUTION: This **portable communication** device 200 as a cellular telephone set is operated in speaker phone mode. The communication device adopts a digital communication method for receiving a vocode signal and

generate it. The speaker phone is acted by a half duplex operation to exclude echoes. When a voice is detected, the device activates speakers 214, 216, silences a microphone 220 to avoid echo. When no voice activity is detected in the received signal, the loudspeakers are silenced and the microphone is started. In order to discriminate the existence of voice activity is in the received signal when it exists, a novel voice activity detection (VAD: voice activity detection) algorithm is used, which utilizes parameters served as a part of the received vocode signal.

28/5/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO

04753578 **Image available**
CELLULAR HAND **PORTABLE** TYPE **SPEAKER** **PHONE** DEVICE

PUB. NO.: 07-046178 [JP 7046178 A]
PUBLISHED: February 14, 1995 (19950214)
INVENTOR(s): TEIMOSHII EMU BAAKU
KINOSHITA YOSHIHIRO
NAKANO TAKASHI
TOOMASU KEE BURAUN
FUKUMA TOSHIHARU
TSUJISHITA YOJI
APPLICANT(s): MURATA MACH LTD [330342] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-338228 [JP 93338228]
FILED: December 28, 1993 (19931228)
PRIORITY: 7-96,549 [US 96549-1993], US (United States of America), July 26, 1993 (19930726)
INTL CLASS: [6] H04B-007/26; H04Q-007/32; H04Q-007/38; H04M-001/60; H04M-001/64
JAPIO CLASS: 44.2 (COMMUNICATION -- Transmission Systems); 44.4 (COMMUNICATION -- Telephone)
JAPIO KEYWORD: R011 (LIQUID CRYSTALS); R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessers)

ABSTRACT

PURPOSE: To add a 'telephone response function' and on 'available time display function' based on the residual quantity of a battery, etc., on a hand-carry type cellular telephone set.

CONSTITUTION: This device is the hand-carry type cellular telephone set including a voice accumulation function which makes a cellular telephone set 10 function similarly as a telephone response device, a battery monitoring system which provides the real time display of residual time for the use of the cellular telephone set to a user in both standby and speech modes, and an interface adaptor 400 used for a speaker phone function, feed to the cellular telephone set, and the re-charge of the battery.

28/5/4 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014951256 **Image available**
WPI Acc No: 2003-011769/200301
Call mode announcement method of mobile communication terminal
Patent Assignee: LG ELECTRONICS INC (GLDS)
Inventor: CHOI I G
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No Kind Date Applicat No Kind Date Week
KR 2002049714 A 20020626 KR 200078963 A 20001220 200301 B

Priority Applications (No Type Date): KR 200078963 A 20001220
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
KR 2002049714 A 1 H04B-001/38

Abstract (Basic): KR 2002049714 A

NOVELTY - A call mode announcement method of a mobile communication terminal is provided to help secure a private life of a receiving party/originating party by checking whether a call state of the receiving party/originating party is in a hands-free or a speaker phone and informing the other party accordingly to allow the user to make a call in consideration that a third party may listen to the call communication.

DETAILED DESCRIPTION - When a call is received by a mobile communication terminal in a standby state(S201), it is checked whether the mobile communication terminal is using a hands-free of a **speaker phone** (S202). If the **mobile communication** terminal uses the hands-free or the speaker phone, an announcement is transmitted to the other party to inform that the terminal of the receiver is in the hands-free or the speaker phone state(S203). The receiving side terminal detects a call start signal of the originating side(S204). If the call start signal is not detected, the announcement is repeatedly transmitted(S203), while if the call start signal is detected, a call communication is made(S205).

pp; 1 DwgNo 1/10

Title Terms: CALL; MODE; ANNOUNCE; METHOD; MOBILE; COMMUNICATE; TERMINAL
Derwent Class: W02
International Patent Class (Main): H04B-001/38
File Segment: EPI

28/5/5 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014713754 **Image available**
WPI Acc No: 2002-534458/200257
Radio speaker phone **function-implemented** mobile **radio terminal and its method**
Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)
Inventor: CHA G S
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
KR 2002010785 A 20020206 KR 200044259 A 20000731 200257 B

Priority Applications (No Type Date): KR 200044259 A 20000731
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
KR 2002010785 A 1 H04B-001/38

Abstract (Basic): KR 2002010785 A

NOVELTY - A radio **speaker phone** function-implemented **mobile** radio terminal and its method are provided to perform a function of a **speaker phone** by a **mobile** radio terminal wirelessly through an audio instrument of an FM radio function even without a hands-free device.

DETAILED DESCRIPTION - A controller(20) controls so that an FM radio function-built in audio instrument power-on requesting and tuning frequency value is provided to a user when the user requests a radio speaker phone call, and control so that a voice signal of the called party is provided to a radio transmitter(4) according to the user's

performing completion. A radio unit(22) controls transmission and reception of a voice data and a control data under the control of the controller(20). A voice processor(24) converts the voice data received from the radio unit(22) into an audible sound through a speaker to output it, and makes a data for a voice signal received from a microphone to output it to the radio unit(22) under the control of the controller(20). A key input unit(26) includes a plurality of number keys and function keys, and outputs a key input data corresponding to a key depressed by the user to the controller(20). A display unit(28) displays various messages under the control of the controller(20). A memory unit(30) includes a program memory storing a program data required for controlling an operation of the mobile phone and a data memory storing data generated during controlling or performing by the user. An FM modulator(32) of a radio transmitter(36) performs FM-modulates a voice signal outputted through a speaker phone output terminal of the voice processor(25) into a pre-set tuning frequency value. A signal amplifier(34) amplifies an output signal of a frequency modulator(32) and provides it to a transmitting antenna(36).

pp; 1 DwgNo 1/10

Title Terms: RADIO; SPEAKER; TELEPHONE; FUNCTION; IMPLEMENT; MOBILE; RADIO; TERMINAL; METHOD

Derwent Class: W02

International Patent Class (Main): H04B-001/38

File Segment: EPI

28/5/6 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

014704986 **Image available**

WPI Acc No: 2002-525690/200256

Structure for installing speaker phone **of** portable **wireless terminal**

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)

Inventor: RYU Y M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
KR 2002010024	A	20020202	KR 200043786	A	20000728	200256	B

Priority Applications (No Type Date): KR 200043786 A 20000728

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2002010024	A		1	H04B-001/38	

Abstract (Basic): KR 2002010024 A

NOVELTY - A structure for installing a **speaker phone** of a **portable** wireless terminal is provided to embody the miniaturization of the portable wireless terminal by maintaining a size of the portable wireless terminal and expanding a display unit or a keypad unit to be convenient in use.

DETAILED DESCRIPTION - A speaker phone(10) is installed on a lower casing frame(112) of a body(110) so that a part of the speaker phone(10) is overlapped with an LCD module for expanding a receiving space of a keypad unit(115) and the LCD module. A receiving hole(22) is formed at a certain place of an upper casing frame(111), and a tube(11) having a uniform diameter is installed between the receiving hole(22) and the speaker phone(10) for transmitting a voice. A sponge(12) is installed in the receiving hole(22) for preventing that a dust flows in the body(110). A nonwoven fabric(13) is attached on a rear surface of the speaker phone(10) for maximally embodying a suitable receiving characteristic.

pp; 1 DwgNo 1/10

Title Terms: STRUCTURE; INSTALLATION; SPEAKER; TELEPHONE; PORTABLE;

WIRELESS; TERMINAL
Derwent Class: W02
International Patent Class (Main): H04B-001/38
File Segment: EPI

28/5/7 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014584918
WPI Acc No: 2002-405622/200243
XRPX Acc No: N02-318456
Operating method for hands-free and/or speaker phone **for** mobile **radio** communications **has loudspeaker used simultaneously as receiver capsule with automatic regulation of output level**
Patent Assignee: SIEMENS AG (SIEI)
Inventor: BOEHNKE G
Number of Countries: 022 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200237816	A2	20020510	WO 2001DE4120	A	20011031	200243	B
DE 10054610	A1	20020523	DE 1054610	A	20001103	200244	

Priority Applications (No Type Date): DE 1054610 A 20001103
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200237816	A2	G	11	H04M-009/08	
DE 10054610	A1			H04M-001/60	

Designated States (National): CN JP US
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

Abstract (Basic): WO 200237816 A2
NOVELTY - The operating method has a loudspeaker with transducer plates or a membrane used simultaneously as a receiver capsule for transmitting the sound signals to the ear, with the output level of the transducer continuously regulated in dependence on the acoustic load at a given characteristic frequency. A threshold circuit can be used for on-off switching of the transducer.
USE - The operating method is used for a hands-free and/or **speaker phone** for **mobile** radio **communications** .
ADVANTAGE - The method prevents damage to the ear by accidental operation of the loudspeaker volume when used as a receiver capsule.
pp; 11 DwgNo 0/1
Title Terms: OPERATE; METHOD; HAND; FREE; SPEAKER; TELEPHONE; MOBILE; RADIO ; COMMUNICATE; LOUDSPEAKER; SIMULTANEOUS; RECEIVE; CAPSULE; AUTOMATIC; REGULATE; OUTPUT; LEVEL
Derwent Class: W01
International Patent Class (Main): H04M-001/60; H04M-009/08
International Patent Class (Additional): H03G-003/30; H04Q-007/32
File Segment: EPI

28/5/8 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014438368 **Image available**
WPI Acc No: 2002-259071/200231
XRPX Acc No: N02-200782
Decorative head clamping bar for mobile telephone speakerphone **element**
Patent Assignee: LIEBERHERR E (LIEB-I)
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 20117383	U1	20020228	DE 2001U2017383	U	20011018	200231	B

Priority Applications (No Type Date): DE 2001U2017383 U 20011018
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 20117383	U1		4	A45D-008/36	

Abstract (Basic): DE 20117383 U1

NOVELTY - The clamping bar contains a decorative element (5) and is capable to retain or secure a **speakerphone** member (3) of **mobile telephone** etc. A wire, or tape (1), is shaped round the head. The wire etc. has a hook-shaped suspender over ears, and/or a resilient tensioner to enable lateral clamping on the head. For fastening of the speakerphone member the wire ends contain facilities for plugging, screwing, gluing, rivetting, etc.

USE - For application of speakerphone members.

ADVANTAGE - Easy speakerphone member fastening.

DESCRIPTION OF DRAWING(S) - The figure shows side view of head clamping bar.

decorative element, (5)

speakerphone member, (3)

wire/tape (1)

pp; 4 DwgNo 1/2

Title Terms: DECORATE; HEAD; CLAMP; BAR; MOBILE; TELEPHONE; ELEMENT
Derwent Class: P24; W01
International Patent Class (Main): A45D-008/36
International Patent Class (Additional): H04M-001/05
File Segment: EPI; EngPI

28/5/9 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

014171980 **Image available**
WPI Acc No: 2001-656208/200175
XRPX Acc No: N01-489134

Electronic device e.g. portable personal computer, produces low frequency sound by vibration of shell which has transducer inside

Patent Assignee: HEWLETT-PACKARD CO (HEWP)
Inventor: HICKMAN S N
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6298141	B1	20011002	US 97962980	A	19971030	200175	B

Priority Applications (No Type Date): US 97962980 A 19971030
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6298141	B1		9	H04R-001/02	

Abstract (Basic): US 6298141 B1

NOVELTY - A control circuit outputs a low frequency audio signal to a transducer (201) located in the interior of a shell (113), so that the shell vibrates around its resonant frequency for generating low frequency sound.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for sound generating method in electronic device.

USE - Electronic device with audio bass enhancement e.g. portable personal computer (PC), and also handheld computer game, **portable** television (TV) , **speaker phone** , etc., that are used in multimedia applications.

ADVANTAGE - Low frequency bass sound required to give full audio

spectrum to user, is produced by the vibration of the shell and hence gives both tactile and audible feeling.

DESCRIPTION OF DRAWING(S) - The figures show the perspective views of electronic device and transducer.

Shell (113)

Transducer (201)

pp; 9 DwgNo 2, 12/12

Title Terms: ELECTRONIC; DEVICE; PORTABLE; PERSON; COMPUTER; PRODUCE; LOW; FREQUENCY; SOUND; VIBRATION; SHELL; TRANSDUCER

Derwent Class: V06; W01; W03

International Patent Class (Main): H04R-001/02

File Segment: EPI

28/5/10 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

014016151 **Image available**

WPI Acc No: 2001-500365/200155

XRPX Acc No: N01-370963

Portable telephone **device controller which enables** speaker phone **mode when** portable telephone **is in horizontal position based on detection result of inclination sensor**

Patent Assignee: NIPPONDENSO CO LTD (NPDE); DENSO CORP (NPDE)

Inventor: KIELSNIA J

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2001189794	A	20010710	JP 2000339059	A	20001107	200155	B
US 6449363	B1	20020910	US 99437330	A	19991109	200263	

Priority Applications (No Type Date): US 99437330 A 19991109

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001189794	A		4	H04M-001/60	
US 6449363	B1			H04M-001/00	

Abstract (Basic): JP 2001189794 A

NOVELTY - An inclination sensor (108) detects when a portable telephone (100) is in horizontal position and not hitting user's ear. The inclination sensor detects demand operation to a user interface (102). A controller enables **speaker phone** mode when **portable telephone** is in horizontal position based on detection result.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for an operation method of a portable telephone.

USE - Portable telephone device.

ADVANTAGE - Has speaker phone mode which prevents penetration of excessive sound to the user's ear.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of components of a portable telephone.

Portable telephone (100)

User interface (102)

Inclination sensor (108)

pp; 4 DwgNo 1/2

Title Terms: PORTABLE; TELEPHONE; DEVICE; CONTROL; ENABLE; SPEAKER; TELEPHONE; MODE; PORTABLE; TELEPHONE; HORIZONTAL; POSITION; BASED; DETECT ; RESULT; INCLINATION; SENSE

Derwent Class: W01; W02

International Patent Class (Main): H04M-001/00; H04M-001/60

International Patent Class (Additional): H04B-001/38; H04B-007/26; H04M-001/247; H04M-001/725

File Segment: EPI

28/5/11 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013639689 **Image available**
WPI Acc No: 2001-123897/200114
XRPX Acc No: N01-174576
Operating telephone set e.g. mobile phone in speakerphone mode displays indication of receive/transmit phase depending on received/transmitted voice intensity
Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)
Inventor: CHANG Y; CHANG Y S
Number of Countries: 005 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
CN 1268858	A	20001004	CN 2000102303	A	20000210	200114	B
GB 2349046	A	20001018	GB 20002994	A	20000210	200126	
KR 2000062086	A	20001025	KR 9912702	A	19990330	200124	
US 6473629	B1	20021029	US 2000482988	A	20000112	200274	
DE 10005803	A1	20001012	DE 1005803	A	20000210	200301	

Priority Applications (No Type Date): KR 9912702 A 19990330
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CN 1268858	A			H04Q-007/32	
GB 2349046	A		21	H04M-009/08	
KR 2000062086	A			H04B-001/40	
US 6473629	B1			H04B-001/38	
DE 10005803	A1			H04M-001/60	

Abstract (Basic): CN 1268858 A
NOVELTY - The method involves:
(a) comparing the intensity of a received voice signal from a caller with that of a transmit voice signal of the telephone set;
(b) determining that the intensity of the received voice signal is stronger than that of the transmit voice signal;
(c) in response to that determination:- outputting the received voice signal through a speaker of the telephone set; and - displaying an indication representing a receiving phase;
(d) alternatively, determining that the intensity of the received voice signal is weaker than that of the transmit voice signal; and in response to that determination:- sending the transmit voice signal to the caller; and- displaying an indication representing the transmitting phase.
DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also given for a telephone set that can operate in a speakerphone mode.
USE - For operating a **telephone** set e.g. a **mobile phone** in a **speakerphone** mode.
ADVANTAGE - Informs user whether transmission or reception of voice signals is being performed. Switches between transmit and receive mode efficiently to avoid unwanted noise or echoes.
DESCRIPTION OF DRAWING(S) - The drawing shows a flow chart of the method.
Dwg.2B/3
GB 2349046 A
NOVELTY - The method involves:
(a) comparing the intensity of a received voice signal from a caller with that of a transmit voice signal of the telephone set;
(b) determining that the intensity of the received voice signal is stronger than that of the transmit voice signal;
(c) in response to that determination:- outputting the received voice signal through a speaker of the telephone set; and - displaying an indication representing a receiving phase;
(d) alternatively, determining that the intensity of the received voice signal is weaker than that of the transmit voice signal; and in

response to that determination:- sending the transmit voice signal to the caller; and- displaying an indication representing the transmitting phase.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also given for a telephone set that can operate in a speakerphone mode.

USE - For operating a **telephone** set e.g. a **mobile phone** in a **speakerphone** mode.

ADVANTAGE - Informs user whether transmission or reception of voice signals is being performed. Switches between transmit and receive mode efficiently to avoid unwanted noise or echoes.

DESCRIPTION OF DRAWING(S) - The drawing shows a flow chart of the method.

Dwg.2B/3

Title Terms: OPERATE; TELEPHONE; SET; MOBILE; TELEPHONE; MODE; DISPLAY; INDICATE; RECEIVE; TRANSMIT; PHASE; DEPEND; RECEIVE; TRANSMIT; VOICE; INTENSITY

Derwent Class: W01; W02

International Patent Class (Main): H04B-001/38; H04B-001/40; H04M-001/60; H04M-009/08; H04Q-007/32

International Patent Class (Additional): H04B-001/46; H04B-017/00; H04M-001/00; H04M-001/82; H04M-009/00

File Segment: EPI

28/5/12 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

013636605

WPI Acc No: 2001-120813/200113

Apparatus for embodying interactive speech recognition of a mobile phone **using a** speaker phone **and method for controlling the same - NoAbstract**

Patent Assignee: HYUNDAI ELECTRONICS IND CO LTD (HYUN-N); HYUNDAI CURITEL (HYUN-N)

Inventor: KOO S M; PARK Y B

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
KR 2000025230	A	20000506	KR 9842229	A	19981009	200113	B
KR 301725	B	20011027	KR 9842229	A	19981009	200236	

Priority Applications (No Type Date): KR 9842229 A 19981009

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2000025230	A			H04B-001/38	
KR 301725	B			H04B-001/38	Previous Publ. patent KR 2000025230

Title Terms: APPARATUS; EMBODY; INTERACT; SPEECH; RECOGNISE; MOBILE; TELEPHONE; SPEAKER; TELEPHONE; METHOD; CONTROL; NOABSTRACT

Derwent Class: W02

International Patent Class (Main): H04B-001/38

File Segment: EPI

28/5/13 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

013599102 **Image available**

WPI Acc No: 2001-083309/200110

Portable speaker phone **has loudspeaker and microphone for hands-free operation and electronic phone book to allow automatic dialling of desired number stored in phone book - NoAbstract**

Patent Assignee: GUREWITZ Y (GURE-I); PD COM LTD (PDCO-N)

Inventor: GUREWITZ Y; PORATH U

Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
IL 129039	A	20000629	IL 129039	A	19990318	200110	B

Priority Applications (No Type Date): IL 129039 A 19990318
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
IL 129039	A		1	H04M-009/08	

Title Terms: PORTABLE; SPEAKER; TELEPHONE; LOUDSPEAKER; MICROPHONE; HAND; FREE; OPERATE; ELECTRONIC; TELEPHONE; BOOK; ALLOW; AUTOMATIC; DIAL; NUMBER; STORAGE; TELEPHONE; BOOK; NOABSTRACT
Derwent Class: W01
International Patent Class (Main): H04M-009/08
File Segment: EPI

28/5/14 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013492626 **Image available**
WPI Acc No: 2000-664569/200064
XRPX Acc No: N00-492522

Adaptive filtering for acoustic echo cancellation in speaker phone, by using error vector and Toeplitz auto correlation matrix inverse to find prefiltering vector to update coefficient and approximation vectors

Patent Assignee: TEXAS INSTR INC (TEXI)
Inventor: ALI M; LINEBARGER D; OH S S
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6137881	A	20001024	US 9738535	A	19970228	200064	B
			US 9832528	A	19980227		

Priority Applications (No Type Date): US 9738535 P 19970228; US 9832528 A 19980227
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6137881	A		9	H04M-001/00	Provisional application US 9738535

Abstract (Basic): US 6137881 A

NOVELTY - Distant and rear signals are sampled at specific rate. An auto correlation vector Crp(01) is initialized and updated using the sampled distant signal (Xn). The signal is processed using fast affine projection algorithm in which error vector is determined from error signal using which prefiltering coefficient vector (sp(n)) and filter approximation vector are updated (Zl(n)).

DETAILED DESCRIPTION - Distant and near signals are sampled at different sampling rates to produce series of sampled distance and near signals (x(n),d(n)). A regularization constant (6), projection order (P), where P is 4 or 5, delay parameter (L) of larger value, adaptation constant (b) are selected. An auto correlation vector (rp), error vector (cp) and prefiltering coefficient vector (sp) and input vector (xp) and filter approximation vector (Zl(o)) are initialized with n=1. The vector (rp(n)) is updated using vectors (rp(n-1), alpha(n), alphap(n)). Using the transpose of the vector rp(n), prediction error and error signal e(n) are determined. Error vector (ep(n)) is computed from the error signal. A Toeplitz auto correlation matrix Rp(n) is computed from matrix vector (rp(n)). A prefiltering vector (gp(n)) is computed from inverse of matrix (Rp(n-1) and ep(n). Prefiltering coefficient vector (sp(n)) and filter approximation vector (2(n)) are updated using the vector (gp(n)). An INDEPENDENT CLAIM is also included for the speaker phone.

USE - For hands free **speaker phone** such as **mobile** cellular

phone .
ADVANTAGE - Cancellation using projection filter algorithm which determines Toeplitz vector for updating, reduces computational complexities.
DESCRIPTION OF DRAWING(S) - The figure shows the echo cancellation system in speaker phones.
pp; 9 DwgNo 1/3
Title Terms: ADAPT; FILTER; ACOUSTIC; ECHO; CANCEL; SPEAKER; TELEPHONE; ERROR; VECTOR; AUTO; CORRELATE; MATRIX; INVERSE; FINDER; PREFILTER; VECTOR; UPDATE; COEFFICIENT; APPROXIMATE; VECTOR
Derwent Class: W01
International Patent Class (Main): H04M-001/00
File Segment: EPI

28/5/15 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013431907 **Image available**
WPI Acc No: 2000-603850/200058
XRPX Acc No: N00-446911
Amplified loudspeaker sound output mobile telephone **having** loudspeaker **with acoustic** box amplification **acoustic** box **also providing light guide display illumination.**
Patent Assignee: SAGEM SA (SAGE)
Inventor: SCHERNO A
Number of Countries: 025 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 1041798	A1	20001004	EP 2000400876	A	20000330	200058	B
FR 2791833	A1	20001006	FR 994159	A	19990402	200059	
EP 1041798	B1	20020529	EP 2000400876	A	20000330	200236	
DE 60000180	E	20020704	DE 600180	A	20000330	200251	
			EP 2000400876	A	20000330		
ES 2177502	T3	20021216	EP 2000400876	A	20000330	200306	

Priority Applications (No Type Date): FR 994159 A 19990402
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1041798	A1	F	6	H04M-001/22	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
FR 2791833	A1			H04B-001/38	
EP 1041798	B1	F		H04M-001/22	
Designated States (Regional): DE ES FI GB IT SE					
DE 60000180	E			H04M-001/22	Based on patent EP 1041798
ES 2177502	T3			H04M-001/22	Based on patent EP 1041798

Abstract (Basic): EP 1041798 A1
NOVELTY - The mobile telephone loudspeaker amplifier construction has a loudspeaker (3) , display (4) and display lighting (5,14). Loudspeaker amplification is provided by an acoustic box (8) which also guides the display lighting from the light source to the display.
USE - Mobile telephone with amplified loudspeaker sound output.
ADVANTAGE - The loudspeaker amplified output is of good quality, without increasing the size of the handset.
DESCRIPTION OF DRAWING(S) - The figure shows a section through the mobile telephone
loudspeaker (3)
display (4)
display lighting (5,14)
acoustic box (8)
pp; 6 DwgNo 1/1
Title Terms: AMPLIFY; LOUDSPEAKER; SOUND; OUTPUT; MOBILE; TELEPHONE;

LOUDSPEAKER; ACOUSTIC; BOX; AMPLIFY; ACOUSTIC; BOX; LIGHT; GUIDE; DISPLAY ; ILLUMINATE
Derwent Class: W01
International Patent Class (Main): H04B-001/38; H04M-001/22
International Patent Class (Additional): H04M-001/03; H04M-001/62; H04Q-007/32
File Segment: EPI

28/5/16 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012106607 **Image available**
WPI Acc No: 1998-523519/199845
XRPX Acc No: N98-409079
Portable **hands free** speaker phone **with earpiece for two-way** communication **- has ambient noise suppressing circuit comprising gain controller receiving transmitter AC output, bandpass amplifier, peak detector and peak-holding circuit**
Patent Assignee: PAN COMMUNICATIONS INC (PANC-N)
Inventor: KONOMI M; YAMAGUCHI N
Number of Countries: 023 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 871312	A1	19981014	EP 97105554	A	19970403	199845	B

Priority Applications (No Type Date): EP 97105554 A 19970403
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 871312	A1	E	23	H04M-001/02	

Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT RO SE SI
Abstract (Basic): EP 871312 A
The communicator has a transmitter (2) and receiver (1) fabricated together, with not less than 7 cm between the transmitter sound pick-up port and the receiver speaker (3) centre (C). The transmitter contains a two-way microphone nearly at the centre of a pipe stuffed with sound-absorbing material at both ends.
An earpiece is also provided containing a transmitter-receiver worn in the outer ear. This has a holder for when not worn in the ear and a receiver changeover mechanism for selecting either the earpiece or the handset receiver.
USE - As hands-free telephone, also portable telephone.
ADVANTAGE - Communicator prevents howling and echo without using a one-way circuit, avoids ambient noise problems and prevents the communication being interrupted.
Dwg.1a,b/1
8
Title Terms: PORTABLE; HAND; FREE; SPEAKER; TELEPHONE; EARPIECE; TWO-WAY; COMMUNICATE; AMBIENT; NOISE; SUPPRESS; CIRCUIT; COMPRISE; GAIN; CONTROL; RECEIVE; TRANSMIT; AC; OUTPUT; BANDPASS; AMPLIFY; PEAK; DETECT; PEAK; HOLD; CIRCUIT
Derwent Class: V06; W01
International Patent Class (Main): H04M-001/02
International Patent Class (Additional): H04M-001/19; H04R-001/38
File Segment: EPI

28/5/17 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX

011093394 **Image available**
WPI Acc No: 1997-071319/199707

XRPX Acc No: N97-059098

Cordless telephone unit - provides electronic answering and transmission signal volume adjusters in baseband circuit which vary speaker phone **volume of** mobile **station regardless of loudspeaker opening position**

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8317042	A	19961129	JP 95122266	A	19950522	199707 B

Priority Applications (No Type Date): JP 95122266 A 19950522
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8317042	A		4	H04M-001/60	

Abstract (Basic): JP 8317042 A

The telephone unit has a mobile station (1) with a rechargeable power supply (12). A charging position detector (22) determines whether position of the transmission opening of mobile station is provided in the supine or undersurface when charging the mobile station.

A baseband circuit (23) includes an electronic answering signal volume adjuster (25) and an electronic transmission signal volume adjuster (26). The telephone call answering and sound volume is varied by the adjusters for the **speaker phone** function of the **mobile** station.

ADVANTAGE - Provides **mobile** station with clearer **speaker phone** function.

Dwg.1/5

Title Terms: CORD; TELEPHONE; UNIT; ELECTRONIC; ANSWER; TRANSMISSION; SIGNAL; VOLUME; ADJUST; BASEBAND; CIRCUIT; VARY; SPEAKER; TELEPHONE; VOLUME; MOBILE; STATION; LOUDSPEAKER; OPEN; POSITION
Derwent Class: W01; W02
International Patent Class (Main): H04M-001/60
International Patent Class (Additional): H04B-001/38; H04M-001/00
File Segment: EPI